

Application No. 09/895,055

Amendment dated August 23, 2006

Office Action mail date: July 31, 2006

**PATENT APPLICATION**

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (Previously Presented) A computer implemented method for facilitating trick mode playback for a user, comprising:

accessing a plurality of encoded digital video frames and encoded digital audio frames on a first computer system;

identifying a subset of said encoded digital video frames for compressed video encoding;

identifying a subset of said encoded digital audio frames for compressed audio encoding;

for all said identified encoded digital video frames, encoding an associated playback video frame;

for all said identified encoded digital audio frames, encoding an associated playback audio frame;

downloading said encoded playback video frames and said encoded playback audio frames on a second computer system;

streaming said encoded digital video frames and said encoded digital audio frames to said second computer system thereby minimizing resources of said second computer system;

decoding said encoded digital video frames and said encoded playback video frames;

decoding said encoded digital audio frames and said encoded playback audio frames;

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if said user directs, incrementally playing said decoded digital video frames or said decoded playback video frames;

if said user directs, incrementally playing said decoded digital audio frames or said decoded playback audio frames;

enabling said user to switch between playing said decoded digital video frames and said decoded playback video frames;

enabling said user to switch between playing said decoded digital audio frames and said decoded playback audio frames;

enabling said user to change location of playing said decoded playback video frames;

enabling said user to change location of playing said decoded playback audio frames;

when switching from playing said decoded playback video frames to playing said decoded digital video frames, matching playing of said decoded digital video frames with said location of playing said decoded playback video frames; and

when switching from playing said decoded playback audio frames to playing said decoded digital audio frames, matching playing of said decoded digital audio frames with said location of playing said decoded playback audio frames.

2. (Original) The method of Claim 1 further comprising said second computer system including a data server computer system and a client computer system.

3. (Original) The method of Claim 1 further comprising said first computer system including an initiating computer system and a data server computer system.

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4. (Previously Presented) The method of Claim 1 further comprising, when said user directs incrementally playing said decoded playback video frames, enabling said user to direct playing of said decoded playback video frames in either a forward direction or a reverse direction.

5. (Previously Presented) The method of Claim 1 further comprising:  
playing said decoded digital video frames via a digital window on said second computer system; and  
playing said decoded playback video frames via a preview window on said second computer system.

6. (Previously Presented) The method of Claim 1 further comprising:  
playing said decoded digital video frames via a digital window on said second computer system; and  
playing said decoded playback video frames via overlaying a preview window on said digital window.

7. (Previously Presented) A computer implemented method for facilitating fast audio playback for a user, comprising:  
accessing a plurality of encoded digital audio frames on a first computer system;  
identifying a subset of said encoded digital audio frames for compressed audio encoding;  
for all said identified encoded digital audio frames, encoding an associated playback audio frame;  
downloading said encoded playback audio frames on a second computer system;

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streaming said encoded digital audio frames to said second computer system thereby  
minimizing resources of said second computer system;  
decoding said encoded digital audio frames and said encoded playback audio frames;  
if said user directs, incrementally playing said decoded digital audio frames or said  
decoded playback audio frames;  
enabling said user to switch between playing said decoded digital audio frames and said  
decoded playback audio frames;  
enabling said user to change location of playing said decoded playback audio frames; and  
when switching from playing said decoded playback audio frames to playing said  
decoded digital audio frames, matching playing of said decoded digital audio  
frames with said location of playing of said decoded playback audio frames.

8. (Original) The method of Claim 7 further comprising said second computer system  
including a data server computer system and a client computer system.

9. (Original) The method of Claim 7 further comprising said first computer system  
including an initiating computer system and a data server computer system.

10. (Previously Presented) The method of Claim 7 further comprising:  
playing said decoded digital audio frames via a digital window on said second computer  
system; and  
playing said decoded playback audio frames via a preview window on said second  
computer system.

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11. (Previously Presented) The method of Claim 10 further comprising:
  - associating audio attributes with said decoded playback audio frames; and
  - representing said associated audio attributes on said preview window.
  
12. (Previously Presented) A computer implemented method for facilitating trick mode playback for a user, comprising:
  - accessing a plurality of encoded digital video frames and a plurality of encoded digital audio frames on a first computer system;
  - identifying a subset of said encoded digital video frames for compressed video encoding;
  - identifying a subset of said encoded digital audio frames for compressed audio encoding;
  - for all said identified encoded digital video frames, encoding an associated playback video frame;
  - for all said identified encoded digital audio frames, encoding an associated playback audio frame;
  - downloading said encoded playback video frames and said encoded playback audio frames on a second computer system;
  - multiplexing said encoded digital video frames and said encoded digital audio frames on said first computer system;
  - streaming said multiplexed digital frames to said second computer system thereby minimizing resources of said second computer system;
  - de-multiplexing said multiplexed digital frames;

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decoding said encoded digital video frames, said encoded digital audio frames, said encoded playback video frames, and said encoded playback audio frames; and  
if said user directs:

synchronizing said decoded digital video frames and said decoded digital audio frames and playing said synchronized digital video frames and digital audio frames; or

synchronizing said decoded playback video frames and said decoded playback audio frames and playing said synchronized playback video frames and playback audio frames;

enabling said user to switch between playing said synchronized digital video frames and digital audio frames and said synchronized playback video frames and playback audio frames;

enabling said user to change location of playing said synchronized playback video frames and playback audio frames; and

when switching to playing said synchronized digital video frames and digital audio frames, matching playing of said synchronized digital video frames and digital audio frames with said location of playing of said synchronized playback video frames and playback audio frames.

13. (Original) The method of Claim 12 further comprising said second computer system including a data server computer system and a client computer system.

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14. (Original) The method of Claim 12 further comprising said first computer system including an initiating computer system and a data server computer system.
15. (Original) The method of Claim 12 further comprising:  
playing said synchronized digital video frames and digital audio frames via a digital window on said second computer system; and  
playing said synchronized playback video frames and playback audio frames via a preview window on said second computer system.
16. (Original) The method of Claim 12 further comprising:  
playing said synchronized digital video frames and digital audio frames via a digital window on said second computer system; and  
playing said synchronized playback video frames and playback audio frames via overlaying a preview window on said digital window.
17. (Previously Presented) A computer implemented method for facilitating trick mode playback on a computer system for a user, comprising:  
accessing a plurality of encoded digital video frames and a plurality of encoded digital audio frames;  
identifying a subset of said encoded digital video frames for compressed video encoding;  
identifying a subset of said encoded digital audio frames for compressed audio encoding;  
for all said identified encoded digital video frames, encoding an associated playback video frame;

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for all said identified encoded digital audio frames, encoding an associated playback audio frame;

downloading said encoded playback video frames and said encoded playback audio frames on said computer system;

decoding said encoded digital video frames and said encoded playback video frames on said computer system;

decoding said encoded digital audio frames and said encoded playback audio frames on said computer system;

if said user directs, incrementally playing said decoded digital video frames or said decoded playback video frames;

if said user directs, incrementally playing said decoded digital audio frames or said decoded playback audio frames;

enabling said user to switch between playing said decoded digital video frames and said decoded playback video frames;

enabling said user to switch between playing said decoded digital audio frames and said decoded playback audio frames;

enabling said user to change location of playing said decoded playback video frames;

enabling said user to change location of playing said decoded playback audio frames;

when switching from playing said decoded playback video frames to playing said decoded digital video frames, matching playing of said decoded digital video frames with said location of playing said decoded playback video frames; and



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when switching from playing said decoded playback audio frames to playing said  
decoded digital audio frames, matching playing of said decoded digital audio  
frames with said location of playing said decoded playback audio frames.

18. (Previously Presented) A computer implemented method for facilitating fast audio  
playback on a computer system for a user, comprising:

accessing a plurality of encoded digital audio frames;

identifying a subset of said encoded digital audio frames for compressed audio encoding;

for all said identified encoded digital audio frames, encoding an associated  
playback audio frame;

downloading said encoded playback audio frames on said computer system;

decoding said encoded digital audio frames and said encoded playback audio frames on  
said computer system;

if said user directs, incrementally playing said decoded digital audio frames or said  
decoded playback audio frames;

enabling said user to switch between playing said decoded digital audio frames and said  
decoded playback audio frames;

enabling said user to change location of playing said decoded playback audio frames; and

when switching from playing said decoded playback audio frames to playing said  
decoded digital audio frames, matching playing of said decoded digital audio  
frames with said location of playing of said decoded playback audio frames.

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19. (Previously Presented) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by said computer for causing a computer system to facilitate trick mode playback for a user, comprising:

accessing a plurality of encoded digital video frames and a plurality of encoded digital audio frames on a first computer system;

identifying a subset of said encoded digital video frames for compressed video encoding;

identifying a subset of said encoded digital audio frames for compressed audio encoding;

for all said identified encoded digital video frames, encoding an associated playback video frame;

for all said identified encoded digital audio frames, encoding an associated playback audio frame;

downloading said encoded playback video frames and said encoded playback audio frames on a second computer system;

streaming said encoded digital video frames and said encoded digital audio frames to said second computer system thereby minimizing resources of said second computer system;

decoding said encoded digital video frames and said encoded playback video frames;

decoding said encoded digital audio frames and said encoded playback audio frames;

if said user directs, incrementally playing said decoded digital video frames or said decoded playback video frames;

if said user directs, incrementally playing said decoded digital audio frames or said decoded playback audio frames;

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enabling said user to switch between playing said decoded digital video frames and said decoded playback video frames;

enabling said user to switch between playing said decoded digital audio frames and said decoded playback audio frames;

enabling said user to change location of playing said decoded playback video frames;

enabling said user to change location of playing said decoded playback audio frames;

when switching from playing said decoded playback video frames to playing said decoded digital video frames, matching playing of said decoded digital video frames with said location of playing said decoded playback video frames; and

when switching from playing said decoded playback audio frames to playing said decoded digital audio frames, matching playing of said decoded digital audio frames with said location of playing said decoded playback audio frames.

20. (Original) The article of manufacture of Claim 19 further comprising said second computer system including a data server computer system and a client computer system.

21. (Original) The article of manufacture of Claim 19 further comprising said first computer system including an initiating computer system and a data server computer system.

22. (Previously Presented) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by said computer for causing a computer system to facilitate fast audio playback for a user, comprising:

accessing a plurality of encoded digital audio frames on a first computer system;

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identifying a subset of said encoded digital audio frames for compressed audio encoding;  
for all said identified encoded digital audio frames, encoding an associated playback  
audio frame;  
downloading said encoded playback audio frames on a second computer system;  
streaming said encoded digital audio frames to said second computer system thereby  
minimizing resources of said second computer system;  
decoding said encoded digital audio frames and said encoded playback audio frames;  
if said user directs, incrementally playing said decoded digital audio frames or said  
decoded playback audio frames;  
enabling said user to switch between playing said decoded digital audio frames and said  
decoded playback audio frames;  
enabling said user to change location of playing said decoded playback audio frames; and  
when switching from playing said decoded playback audio frames to playing said  
decoded digital audio frames, matching playing of said decoded digital audio  
frames with said location of playing of said decoded playback audio frames.

23. (Previously Presented) The article of manufacture of Claim 22 further comprising said  
second computer system including a data server computer system and a client computer system.

24. (Previously Presented) The article of manufacture of Claim 22 further comprising said  
first computer system including an initiating computer system and a data server computer  
system.

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25. (Currently Amended) A computer system for facilitating trick mode playback for a user, comprising:

a first computer system having for accessing:

a plurality of encoded digital video frames;

a plurality of encoded digital audio frames;

a subset of said encoded digital video frames that are identified for compressed video encoding;

a subset of said encoded digital audio frames that are identified for compressed audio encoding;

for all said identified encoded digital video frames, an associated encoded playback video frame; and

for all said identified encoded digital audio frames, an associated encoded playback audio frame;

a second computer system having for accessing:

said encoded playback video frames that are downloaded thereto;

said encoded playback audio frames that are downloaded thereto;

said encoded digital video frames and said encoded digital audio frames that are streamed thereto thereby minimizing resources of said second computer system;

decoded digital video frames that are decoded from said encoded digital video frames;

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decoded digital audio frames that are decoded from said encoded digital audio frames;

decoded playback video frames that are decoded from said encoded playback video frames;

decoded playback audio frames that are decoded from said encoded playback audio frames;

wherein said user directs:

said decoded digital video frames being incrementally played on said second computer system; or

said decoded playback video frames being incrementally played on said second computer system;

while said user directs:

said decoded digital audio frames being incrementally played on said second computer system; or

said decoded playback audio frames being incrementally played on said second computer system;

a location of playing said decoded playback video frames being changed by said user;

and

a location of playing said decoded playback audio frames being changed by said user;

and

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said location of playing facilitating synchronized playing of said decoded digital video frames when said user directs playing said decoded digital video frames after playing said decoded playback video frames; and

said location of playing facilitating synchronized playing of said decoded digital audio frames when said user directs playing said decoded digital audio frames after playing said decoded playback audio frames.

26. (Original) The computer system of Claim 25 further comprising said second computer system including a data server computer system and a client computer system.

27. (Original) The computer system of Claim 25 further comprising said first computer system including an initiating computer system and a data server computer system.

28. (Currently Amended) A computer system for facilitating fast audio playback for a user, comprising:

a first computer system having for accessing:

a plurality of encoded digital audio frames;

a subset of said encoded digital audio frames that are identified for compressed audio encoding;

for all said identified encoded digital audio frames, an associated encoded playback audio frame; and

said encoded playback audio frames that are downloaded on a second said computer system;

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a second computer system having for accessing;

said encoded digital audio frames that are streamed thereto thereby minimizing  
resources of said second computer system;

decoded digital audio frames that are decoded from said encoded digital audio  
frames; and

decoded playback audio frames that are decoded from said encoded playback  
audio frames;

wherein said user directs:

said decoded digital audio frames being incrementally played on said second  
computer system; or

said decoded playback audio frames being incrementally played on said second  
computer system;

a location of playing said decoded playback audio frames being changed by said user;  
and

said location of playing facilitating synchronized playing of said decoded digital audio  
frames when said user directs playing said decoded digital audio frames after  
playing said decoded playback audio frames.

29. (Original) The computer system of Claim 28 further comprising said second computer  
system including a data server computer system and a client computer system.

30. (Original) The computer system of Claim 28 further comprising said first computer  
system including an initiating computer system and a data server computer system.



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31. (Previously Presented) The method of Claim 1 further comprising said encoded digital video frames and encoded digital audio frames including time stamp information.
32. (Currently Amended) The method of Claim 7 further comprising said encoded digital video frames and encoded digital audio frames including time stamp information.